What is claimed is:

- 1. A spherical lens having a diameter less than $10\,\mu\text{m},$ and used for its optical properties.
- 2. A device as in claim 1, wherein said optical altering properties are lensing properties.
- 3. A device as in claim 1, wherein said structure has at least one cross section that is circular.
- 4. A device as in claim 3, wherein said structure is spherical.
- 5. A device as in claim 4, where said device is made of polystyrene latex.
- 6. A device as in claim 4, where said device is made of glass.
- 7. A device as in claim 1 consisting of multiple lens elements attached together.
 - 8. A sensor comprising:

first and second optical elements, each less than 10 μm in diameter;

an optical sensor, receiving light that has passed through said first and second optical elements; and

a processing element, processing said light to determine information about a spatial orientation of said first and second optical elements.

- 9. A sensor as in claim 8, wherein said processing element determines rotation.
- 10. A sensor as in claim 8, wherein said second optical element has a different optical characteristic than said first optical element.
- 11. A sensor as in claim 8, wherein said different optical characteristic is fluorescence.
- 12. A sensor as in claim 9, wherein said rotation is detected by intensity of light that is received.
 - 13. A method of focusing light, comprising:

using a polymer element which has at least one circular cross section, and has a diameter of said circular cross section that is less than $10\mu m$, to focus light.

- 14. A method as in claim 13, wherein said using comprises using in an optical microscope.
- 15. A method as in claim 13, wherein said using comprises scanning the element.
- 16. A method as in claim 15, wherein such scanning is accomplished by holding the particle in optical tweezers and scanning the optical tweezers.
- 17. A method as in claim 13, wherein said using comprises attaching said latex element to a surface.
- 18. A method as in claim 17, wherein said attaching uses a chemical or biochemical methods.
- 19. A method as in claim 17, wherein said biochemical method comprises biotin and streptavidin linking.

- 20. A method as in claim 17, wherein said attaching comprises melting said latex element to said surface.
- 21. A method as in claim 17, wherein said surface is a surface of a laser.
- 22. A method as in claim 17, wherein said surface is a surface of an optical fiber.